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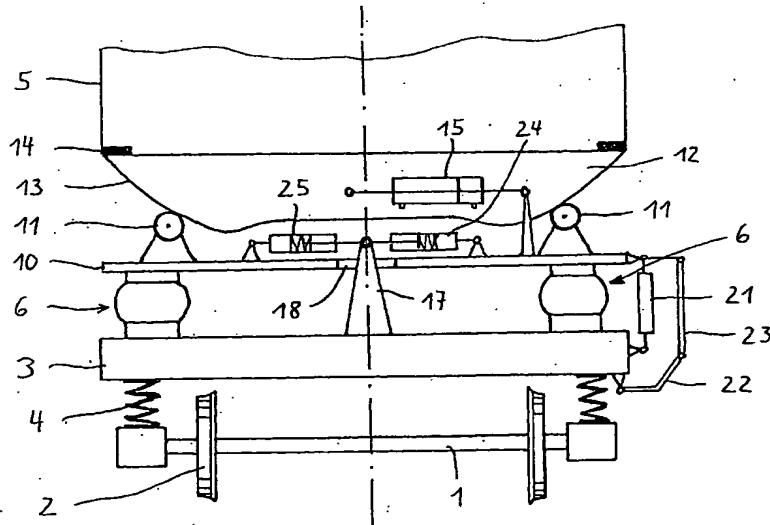
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(81) Bestimmungsstaaten (soweit nicht anders angegeben, für jede verfügbare nationale Schutzrechtsart): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Fortsetzung auf der nächsten Seite]

(54) Title: RUNNING GEAR FOR A RAILWAY VEHICLE PROVIDED WITH AN IMPROVED TRANSVERSAL SUSPENSION

(54) Bezeichnung: FAHRWERK FÜR EIN SCHIENENFAHRZEUG MIT VERBESSERTER QUERFEDERUNG



(57) Abstract: The invention relates to a running gear for a railway vehicle comprising at least one axle, a running gear frame (3) which is supported by said axle by means an intermediate primary suspension (4), a secondary suspension for supporting a frame (5) on the running gear frame and a transversal suspension (24, 25). In a preferred embodiment, said secondary suspension is provided with pneumatic springs (6). In order to better control transversal and rolling motions with a low interaction, the transversal suspension (24, 25) and/or a transversal damping are arranged above the secondary suspension (6) and under the lower part of the frame (5).

[Fortsetzung auf der nächsten Seite]

WO 2004/089716 A1

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/003733

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B61F5/22 B61F5/10 B61F5/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 247 413 B1 (TEICHMANN MARTIN) 19 June 2001 (2001-06-19) the whole document	1-16, 18-24
X	US 3 877 389 A (DEAN ALBERT G) 15 April 1975 (1975-04-15)	1-6, 8-10,12, 19
Y	column 1, lines 43-60 column 2, line 67 - column 4, line 8; figure 3	7
X	US 3 782 294 A (SUNDBY G) 1 January 1974 (1974-01-01) column 3, lines 36-60 column 5, lines 33-56; figures 1,2,4	1-6,11, 12,19,20
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
21 July 2004	30/07/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016	Authorized officer Fuchs, A

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/003733

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 1 232 121 A (MASCHINENFABRIK AUGSBURG-NURNBERG) 19 May 1971 (1971-05-19) figures 3-9 _____	7

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2004/003733

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

see supplemental sheet PCT/ISA/210

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No. PCT/EP2004/003733
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Continuation of II.2

Claims:

The embodiments according to figures 1 and 3 are inconsistent with the subject matter of claim 1 (in fig. 1 the cross spring 19 is below the secondary suspension and in fig. 3 the cross spring 27 is not below but within the base span of the coach body). The search was consequently limited to the subject of the claims taking into account the embodiment according to figure 2.

The applicant is advised that claims relating to inventions in respect of which no international search report has been established normally cannot be the subject of an international preliminary examination (PCT Rule 66.1(e)). In its capacity as International Preliminary Examining Authority the EPO generally will not carry out a preliminary examination for subjects that have not been searched. This also applies to cases where the claims were amended after receipt of the international search report (PCT Article 19) or where the applicant submits new claims in the course of the procedure under PCT Chapter II. After entry into the regional phase before the EPO, however, an additional search can be carried out in the course of the examination (cf. EPO Guidelines, Part C, VI, 8.5) if the deficiencies that led to the declaration under PCT Article 17(2) have been remedied.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/003733

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